



1600

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**ENTERED**

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/554,704

DATE: 05/16/2003  
 TIME: 08:00:07

Input Set : A:\032313-004.ST25.txt  
 Output Set: N:\CRF4\05162003\I554704.raw

```

4 <110> APPLICANT: Svanborg, Catharina
5   Hakansson, Per Anders
6   Svensson, Malin Wilhelmina
8 <120> TITLE OF INVENTION: Lactalbumin Production Process
10 <130> FILE REFERENCE: 032313-004
12 <140> CURRENT APPLICATION NUMBER: US 09/554,704
13 <141> CURRENT FILING DATE: 2000-08-15
15 <150> PRIOR APPLICATION NUMBER: PCT/IB98/01919
16 <151> PRIOR FILING DATE: 1999-11-23
18 <150> PRIOR APPLICATION NUMBER: GB 9724725.8
19 <151> PRIOR FILING DATE: 1997-11-21
21 <150> PRIOR APPLICATION NUMBER: GB 9812202.1
22 <151> PRIOR FILING DATE: 1998-06-05
24 <160> NUMBER OF SEQ ID NOS: 8
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 30
30 <212> TYPE: PRT
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: amino acid sequence of alpha-lactalbumin (HLA)
36 <400> SEQUENCE: 1
37 Lys Gln Phe Thr Lys Cys Glu Leu Ser Gln Leu Leu Lys Asp Ile Asp
38 1           5           10          15
39 Gly Tyr Gly Gly Ile Ala Leu Pro Pro Leu Ile Asp Thr Met
40           20          25          30
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 30
45 <212> TYPE: PRT
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL
W--> 51 <221> NAME/KEY: VARIANT
52 <222> LOCATION: 6
53 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 55 <400> 2
W--> 56 Lys Gln Phe Thr Lys Xaa Glu Leu Ser Gln Leu Leu Lys Asp Ile Asp
57 1           5           10          15
58 Gly Tyr Gly Gly Ile Ala Leu Pro Pro Leu Ile Asp Thr Met
59           20          25          30
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 10
64 <212> TYPE: PRT

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65 <213> ORGANISM: Artificial Sequence  
67 <220> FEATURE:  
68 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL  
W--> 70 <221> NAME/KEY: VARIANT  
71 <222> LOCATION: 6  
72 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
W--> 74 <400> 3  
W--> 75 Lys Gln Phe Thr Lys Xaa Glu Leu Ser Gln  
76 1 5 10  
79 <210> SEQ ID NO: 4  
80 <211> LENGTH: 10  
81 <212> TYPE: PRT  
82 <213> ORGANISM: Artificial Sequence  
84 <220> FEATURE:  
85 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL  
87 <400> SEQUENCE: 4  
88 Lys Gln Phe Leu Lys Arg Pro Lys Thr Pro  
89 1 5 10  
92 <210> SEQ ID NO: 5  
93 <211> LENGTH: 10  
94 <212> TYPE: PRT  
95 <213> ORGANISM: Artificial Sequence  
97 <220> FEATURE:  
98 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL  
W--> 100 <221> NAME/KEY: VARIANT  
101 <222> LOCATION: 5, 6, 9  
102 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
W--> 104 <400> 5  
W--> 105 Lys Gln Phe Thr Xaa Xaa Glu Leu Xaa Gln  
106 1 5 10  
109 <210> SEQ ID NO: 6  
110 <211> LENGTH: 10  
111 <212> TYPE: PRT  
112 <213> ORGANISM: Artificial Sequence  
114 <220> FEATURE:  
115 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL  
W--> 117 <221> NAME/KEY: VARIANT  
118 <222> LOCATION: 5, 6, 9  
119 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
W--> 121 <400> 6  
W--> 122 Lys Gln Asn Ile Xaa Xaa Glu Ser Xaa Val  
123 1 5 10  
126 <210> SEQ ID NO: 7  
127 <211> LENGTH: 10  
128 <212> TYPE: PRT  
129 <213> ORGANISM: Artificial Sequence  
131 <220> FEATURE:  
132 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL  
W--> 134 <221> NAME/KEY: VARIANT

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PATENT APPLICATION: US/09/554,704

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Input Set : A:\032313-004.ST25.txt  
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135 <222> LOCATION: 5, 6, 9  
136 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
W--> 138 <400> 7  
W--> 139 Lys Gln Phe Thr Xaa Xaa Glu Tyr Xaa Asn  
140 1 5 10  
143 <210> SEQ ID NO: 8  
144 <211> LENGTH: 6  
145 <212> TYPE: PRT  
146 <213> ORGANISM: Artificial Sequence  
148 <220> FEATURE:  
149 <223> OTHER INFORMATION: amino acid sequence of the protein bands of MAL  
W--> 151 <221> NAME/KEY: VARIANT  
152 <222> LOCATION: 6  
153 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
W--> 155 <400> 8  
W--> 156 Lys Gln Phe Thr Lys Xaa  
157 1 5

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 05/16/2003  
PATENT APPLICATION: US/09/554,704                   TIME: 08:00:08

Input Set : A:\032313-004.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 6  
Seq#:3; Xaa Pos. 6  
Seq#:5; Xaa Pos. 5,6,9  
Seq#:6; Xaa Pos. 5,6,9  
Seq#:7; Xaa Pos. 5,6,9  
Seq#:8; Xaa Pos. 6

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/554,704

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Input Set : A:\032313-004.ST25.txt  
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L:51 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:55 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:70 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:74 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:100 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:104 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:117 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:134 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:138 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:151 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:155 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0